

Joint Expeditionary Field Fortification

Purpose: To assess Commercial Off-the-Shelf (COTS) expedient fortification construction systems.

Background: The Marine Corps' current expedient fortification capability is the sandbag, which is manpower intensive and is one-time use. An "easy-to-build, scalable and reusable" force protection structure is needed in the rapidly changing asymmetric environment that our Marines operate. By leveraging modern materials and techniques, we can increase force protection while decreasing the manpower hours needed to construct expedient fortifications. The Director, Logistics Plans, Policies and Strategic Mobility Division at Headquarters Marine Corps Installation and Logistics has asked the Lab to conduct experimentation in the areas of counter mobility and survivability, both of which fall under this initiative. Congressional support has been garnered with funding specifically allocated for experimentation with this innovative technology.



Description: The Rapid Deployment Fortification Wall (RDFW) is an expandable, stackable, modular wall made of tough, lightweight, environmentally responsible plastic that can be employed to rapidly construct field fortifications for bunkers, stand off blast and ballistic protection units, other hardened shelters and revetments. Assessment will include construction of bunkers, revetments, obstacles, as well as looking into application for runway/roadway crater repair.

Deliverable Products: Prototypes, assessment reports and requirement documentation.

Milestones:

TASK	FY05	FY06
Ballistic testing by USAF	▲	
Distribute to units in support of OIF 3	▲	

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